

KUPTSEVICH, Ye.I.

Effect of intervals between antigen injections on the agglutination titer of choleraic diagnostic serums. Dokl. Irk. gos. nauch.-issl. protivochum. inst. no.5:67-71 '63 (MIRA 18:1)

KHUNDANOV, L.Ye.; KUPTSEVICH, Ye.I.; DEMIDOVA, Ye.K.; SMIRNOVA, L.A.;  
SHIKURKO, Ye.D.

Compound treatment of experimental melioidosis with antibiotics  
and sulfodimesin. Antibiotiki 6 no.11:1013-1016 N '61. (MIRA 15:3)

1. Irkutskiy nauchno-issledovatel'skiy protivoochumnyy institut  
Sibiri i Dal'nego Vostoka.  
(MELIOIDOSIS) (SULFAMETHAZINE) (ANTIBIOTICS)

KHUNDANOV, L.Yo.; SHKURKO, Ye.D.; KUITSEVICH, Yo.I.; KULIKOVA, G.G.

Chemotherapy of experimental cholera. Antibiotiki 7 no.4:331-334  
Ap '62. (MIRA 15:3)

1. Irkutskiy nauchno-issledovatel'skiy protivochumnyy  
institut Sibiri i Dal'nego Vostoka.  
(CHOLERA, ASIATIC) (ANTIBIOTICS) (GAMMA GLOBULIN)

KHUNDANOV, L.Ye.; KUPTSEVICH, Ye.N.; DEMIDOVA, Ye.K.; SMIRNOVA, L.A.;  
SHKURKO, Ye.D.

Combined therapy of experimental melioidosis. Veterinariia 38  
no.10:55-57 O '61. (MIRA 16:2)

1. Irkutskiy gosudarstvennyy nauchno-issledovatel'skiy  
protivochumnyy institut Sibiri i Dal'nego Vostoka.  
(Melioidosis) (Antibiotics) (Sulfamethazine)

KUPTSIMOV, V.Ye., slesar'-instrumental'shchik

Device for matching the springs of rapid-acting cutouts. Elek,i  
tepl.tiaga no.10:35 0 '57. (MIRA 10:11)

1. Depo Zlatoust, Yuzhno-Ural'skoy dorogi.  
(Electric cutouts)

KUPTSIS, Anna Mikhaylovna; BASENKO, Margarita Anatol'yevna;  
SAPUNOVA, Tamara Alekseyevna; ISKRA, Ye.V., red.

[Protection of apparatus with paint and varnish coatings]  
Zashchita priborov lakokrasochnymi pokrytiiami. Lenin-  
grad, 1964. 22 p. (F.I.R.A. 17:11)

CHIKALOV, I.; KUPTSOV, A.; ZIL'BERSHTEYN, S., bukhgalter

Why is there no literature on social insurance? Okh. truda i sots.  
strakh. no.6:89-90 Je '59. (MIRA 12:10)

1.Predsedatel' zavodskogo komiteta zavoda "Serp i molot," Moskva (for  
Chikalov). 2.Chlen komissii po sotsial'nому strakhovaniyu zavoda  
"Serp i molot," Moskva (for Kuptsov). 3.Zavodskiy komitet zavoda  
"Serp i molot," (for Zil'bershteyn).  
(Insurance, Social)

GANZBURG, M.; KANTOR, D.; KOTEL'NIKOV, A.; KUPTSOV, A.

"IAuza-5" magnetic tape recorder. Radio no.12:27-30 D '60.  
(MIRA 14:1)  
(Magnetic recorders and recording)

IGNATENKO, A.Ye.; KUPTSOV, A.B.; LI SUANG-MING; PETRASKU, M.G.; YEGOROV, L.B.;  
ZHURAVLEV, G.V.

Spin dependence of weak interaction in the process  $\pi^- + p \rightarrow \mu^- + \nu$   
Dubna, Izdatel'skii otdel Ob"edinennogo in-ta iadernykh issledo-  
vaniii, 1961. 13 p. (MIRA 14:10)

(No subject heading)

KUPTSOV, A. I.

"Division of Leaf Blade in Kok-Saghyz as a Character of Breeding Value," Dokl.  
AN SSSR, 34, No.1, 1942.

Dept. Genetics and Breeding, Tomsk Univ.

KUPTSOV, A. T.

"Exploitation of natural selection in the selection of cultivated plants." (pp. 107-116)  
by A. T. Kuptsov

SO: Journal of General Biology (Zhurnal Obshchei Biologii) Vol. 4, No. 2, 1943

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CIA-RDP86-00513R000927610018-7

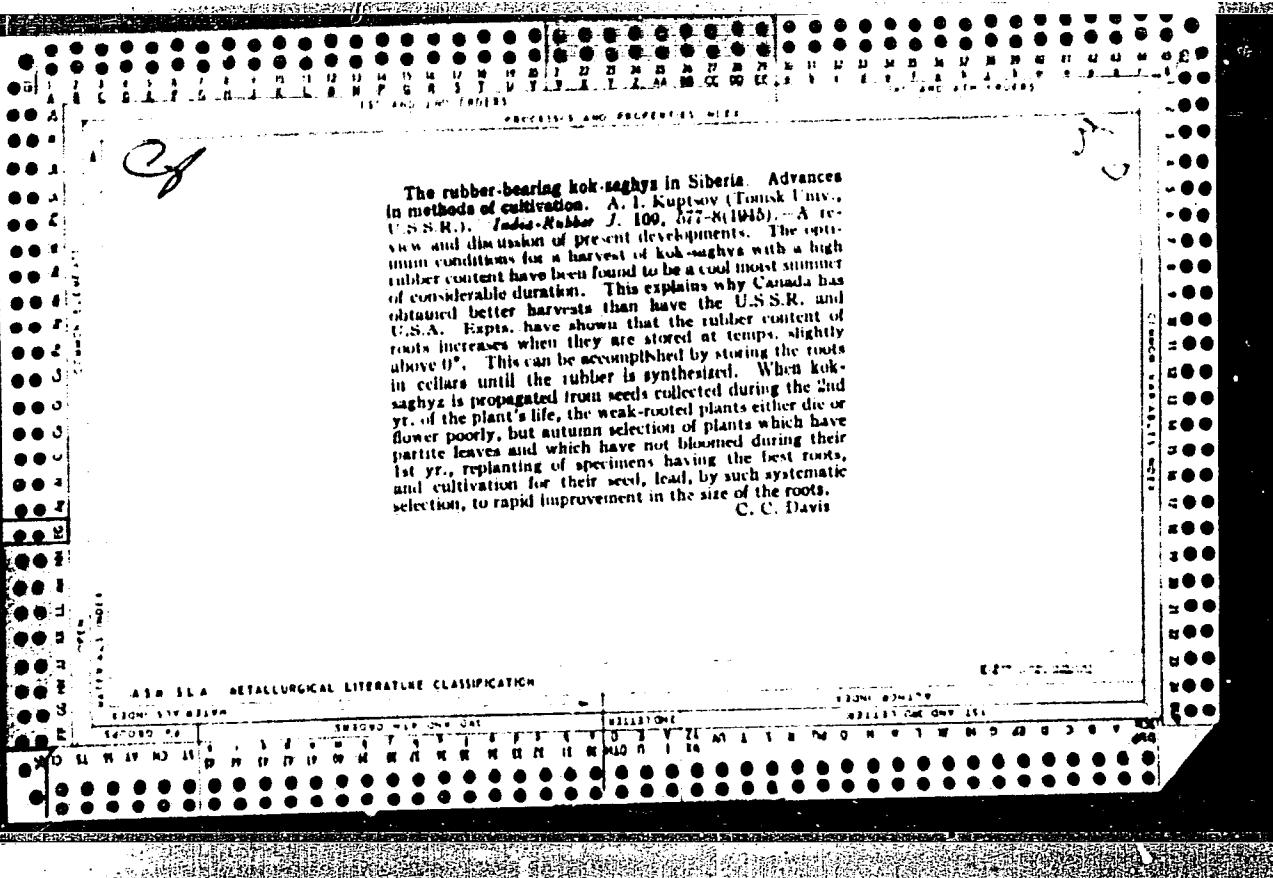
KUPTSOV, A. T.

"An Attempt of Synthesizing Winter Wheats for the Sub-Tayga Zone of West Siberia,"  
Dokl. AN SSSR, 43, No.4, 1944

Tomsk State U.

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PL 11/49T64

KUPTSOV, A. I.

USSR/Medicine - Botany  
Medicine - Plants

Jul 48

"Variations of Plant Correlation Due to Selection,"  
A. I. Kuptsov, Main Bot Gardens, Acad Sci USSR,  
3 pp

"Dok Ak Nauk SSSR" Vol LXI, No 3

Reports observations of correlation in tau-sagyz.  
and flax plants. Submitted 24 May 48.

11/49T64

1. KUPTSOV, A. I.
2. USSR (600)
4. Plants, Cultivated
7. Transformation of wild perennial plants into cultivated annuals, Dokl. AN SSSR 86 No. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

KUPTSOV, A.I., professor, (Moskva)

Transition of wild plants and weeds into the cultivated state.  
Priroda 44 no.12:92-95 D '55. (MIRA 9:1)

(Plants--Evolution) (Plants, Cultivated) (Plant breeding)

KUPTSOV, A. I.

Historical development of the geographic distribution of  
cultivated crops. Izv.Vses.geog.ob-va 87 no.3:220-231  
My-Je '55. (MLRA 8:9)  
(Phytogeography)

Country : USSR  
Category: Cultivated Plants. Medicinal. Essential Oil-Bearing.  
Toxins.

Abs Jour: RZhBiol., No 11, 1958, No 49141

Author : Kuptsov, I.I.

Inst : Main Botanical Garden

Title : Utilization of World Resources of Medicinal Plants.

Orig Pub: Byul. Gl. botan. sada, 1957, No 27, 29-32

Abstract: Distribution, by separate countries, is reported of the world resources of medicinal plants utilized in popular and official medicine. Medicinal plants of Europe, East Asia and North Africa predominate in pharmacopoeias over medicinal plants of other regions. The low value attached to medicinal plants

Card : 1/3

Country : USSR

Category: Cultivated Plants. Medicinal. Essential Oil-Bearing.  
Toxins.

H

Abs Jour: RZhBiol., No 11, 1958, No 49141

dwelling outside the ancient settlement areas of the European peoples, is characteristic of the pharmacopoeias of non-European countries also: in the pharmacopoeias of the United States of America and Mexico, American species comprise 30-34%, and in the Japanese pharmacopoeia East Asiatic species comprise only 17%. A more serious attitude is recommended toward plants utilized by peoples of non-European origin and ignored by "world" medicine. In the Union of the Soviet Socialist Republics attention should be given to medicinal plants of the peoples of Eastern Siberia and the Far East whence ginseng, common balm (*melissa*), barberry species, the moonseeds, myosote [?], .

Card : 2/3

M-175

Country : USSR  
Category: Cultivated Plants. Medicinal. Essential Oil-Bearing.  
Toxins.

M

Abz Jour: Kliniol., No 11, 1953, No 49141.

(zaminulka), Stemonaceae, European bugbane were borrowed and are being studied. It is recommended that increased attention be given to foreign plants already being utilized in USSR from remote countries (Indian thorn apple, and others). A serious critical survey of the flora of Europe, Caucasus, East and Middle Asia is necessary. The problem is raised of taking an inventory of all available resources of medicinal plants in one's own country and beyond its boundaries, especially in regions inhabited by peoples of non-European origin, medicinal plants of which are least utilized by world medicine. ...

R.I. Serebryannyy

Card : 3/3

KUPTSOV, A. I.

## AUTHOR:

Kuptsov, A. I.

20-4-43/51

## TITLE:

The Asymmetry of Variation Curves in Wild Plants Under Cultivation (Asimmetriya krivykh izmenchivosti u dikikh rasteniy v kul'ture).

PERIODICAL: Doklady AN SSSR, 1957, Vol. 116, Nr 4, pp. 684-687 (USSR).

## ABSTRACT:

The quick genetic variation of some under the influence of cultivation wild plants awakens the interest to investigate the reasons of this phenomenon. Doubtlessly the natural or artificial selection directs this evolution process. However, the characteristic variability of the original populations favors apparently their quick and favorable evolution under plantation conditions. In classic biometry it is known that the variations of single characteristic features of quantity are expressed by a symmetrical curve of normal shape, or by asymmetrical ones which to a small extent deviate from it (table 1, figure 1). By observing the cultures of wild plant species often variation curves can be detected which deviate to a great extent from the normal ones. It is an established fact that the variation of the wild populations increases to a great extent under plantation conditions. This is of enormous importance for the process of

Card 1/3

The Asymmetry of Variation Curves in Wild Plants Under  
Cultivation.

20-443/51

natural selection within these populations, and for the quick transformations of the wild biologic species into new species more apt for cultivation and human demands. In this connexion the asymmetries of the variation curves are striking. This concerns the plant characteristics valuable from the economic point of view, as the size index of single organs, the content of valuable chemical compounds, and the quick development. As a rule, this asymmetry is positive, i. e. the deviations from the mode (moda) are of increasing nature (table 2, figure 2). It happens that these increasing deviations produce single individuals which differ from the other population by their size and a prolonged vegetation period. Usually also plants with an accelerated ontogenesis occur. The exploitation of the variation peculiarities and the selection of the variants deviating to the greatest extent from the mode make it possible for the selector to create very soon new culture forms. This is illustrated by the papers by I. V. Michurin (reference 4). The variation curve modes of the quantity characteristics of the cultivated wild plants will shift after each new reproduction as the result of a natural or sometimes also artificial selection in favor of greater and quicker ripening variations. The variation curves to a great extent

Card 2/3

The Asymmetry of Variation Curves in Wild Plants Under  
Cultivation.

20-443/51

asymmetrical of the original variants deviate here (table 4, figure 3). Simultaneously two different modes are determined for the cultivated wild material and for the material changed under the influence of the cultures. In the case of a sufficient difference between these modes as well as between the corresponding variation series one can speak of a new culture form. This form would biometrically differ obviously from the original wild form, according to certain characteristics. Obviously is this a way towards the production of new culture plants and their alienation from the original wild parents. There are 3 figures, 4 tables and 6 references, 4 of which are Slavic.

ASSOCIATION. All-Union Correspondence Agricultural Institute  
(Vsesoyuznyy sel'skokhozyaystvennyy institut zaochnogo obrazovaniya).

PRESENTED. June 18, 1957, by V. N. Sukachev, Academician.

SUBMITTED. January 14, 1956.

AVAILABLE. Library of Congress.

Card 3/3

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000927610018-7

KUPTSOV, A. I. (Moskva)

Specific features of artificial selection in plant introduction.  
Trudy Bot. inst. Ser. 6 no. 7:48-52 '59. (MIRA 13:4)  
(Plant introduction)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000927610018-7"

KUPTSOV, A.I.

Plant introduction from the point of view of agronomy.  
Biul. Glav. bot. sada no.45:27-32 '62. (MIRA 16:2)

1. Pervyy meditsinskiy institut imeni I.M. Sechenova, Moskva  
(Plant introduction)

KUPTSOV, A. I.,

"The Evolution of Flower Colours in Populations of *Tulipa schrenkii* Rgl.  
according to Statistical Data."

Report submitted for the 11th Intl. Congress for Genetics, The Hague, Netherlands,  
2-10 Sep 63

KUPTSOV, A.I.

Aspects of the development of plant resources for the pharmaceutical industry based on genetics and breeding. Rast. res. 1 no.4:501-506 '65 (MIRA 19:1)

1. Moskovskiy universitet imeni M.V. Lomonosova, Moskva.  
Submitted March 15, 1965.

KUPTSOV, A.I.

Dynamics of natural selection in cultivation of wild plants.  
Genetika no.5:150-160 N '65. (MIRA 19:1)

I. Novosibirskiy gosudarstvennyy universitet, kafedra obshchey  
biologii. Submitted July 13, 1965.

KUPTSOV, A.I.; KALANTYR', M.S.

In memory of Sergei Vasil'evich Bulgakov; July 17, 1891 -  
October 15, 1964. Rast. res. 1 no.4:603-605 '65.  
(MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iekaraten-  
nykh i aromaticeskikh resteniy, Moskva. Submitted May 15,  
1965.

KUPTSOV, A.P., inzhener.

Methods of increasing the efficiency of forced draft installations.  
Elek.sta. 25 no.7:17-21 Jl '54. (MLRA 7:8)  
(Furnaces)

KUPTSOV, A.P., inzhener.

Efficiency of TSAGI type exhaust fans under actual operating  
conditions. Elek.sta. 27 no.7:4-12 J1 '56. (MLRA 9:10)

(Fans, Mechanical)

AUTHOR: Kuptsov, A.P., Engineer. 104-4-28/40

TITLE: A method of determining the quantity of flue gases in testing induced draught equipment. (Sposob opredeleniya kolichestva dymovykh gazov pri ispytanii dymososov)

PERIODICAL: "Elektricheskie Stantsii" (Power Stations), 1957, Vol. 28, No.4, pp. 82 - 84 (U.S.S.R.)

ABSTRACT: Two main methods are used to determine the quantity of flue gases during tests on induced draught fans. The first of these is the pneumometric in which the quantity of flue gas is calculated from dynamic pressures measured by pneumometric tubes and the second is from the reverse thermal balance, the elementary analysis of the fuel and the content of  $\text{CO}_2$  in the flue gas. Published data states that pneumometric tubes must be installed in an even gas duct the length of which is at least four or five times as long as the diameter. However, in the majority of power stations no such position exists. Experiments were made to select the place of installation of the pneumometric tube. Short and uneven gas ducts were used and experiments confirmed that measurements of dynamic pressures in them gave results of sufficient accuracy for practical purposes. To confirm this tests were carried out simultaneously of the quantity of gas in

1/2

A method of determining the quantity of flue gases in testing induced draught equipment. (Cont.)

104-4-28/40

short but straight gas ducts, at the intake to the induced draught fans and at the diffuser on the pressure side. The results were in agreement within 1%. Various experimental procedures for measuring air flow are described, and the pre-  
2/2 cautions that must be taken when two induced draught fans work on a single duct are stated.

There are 7 figures.

AVAILABLE:

YEGOROV, L.B.; ZHURAVLEV, G.V.; IGNATENKO, A.Ye.; KUPTSOV, A.V.;  
LI SYUAN-MIN; PETRASHKU, M.G.

Investigating the spin dependence of weak interaction in the  
process  $\mu^- + p \rightarrow n + \gamma$ . Zhur.ekspl. teor.fiz. 41 no.3:684-  
691 S '61. (MIRA 14:10)

1. Ob'yedinennyy institut yadernykh issledovaniy.  
(Nuclear reactions) (Protons) (Mesons)

YEGOROV, L.B.; IGNATENKO, A.Ye.; KUPTSOV, A.V.; PETRASHKU, M.G.;  
SARANTSEVA, V.R., tekhn. red.

[Search for anomalies in  $\mu^-$ -meson decay in paramagnetic metals]  
Poiski anomalii pri raspade  $\mu^-$ -mezonov v paramagnitnykh metallakh.  
Dubna, Ob"edinennyi in-t iadernykh issl., 1962. 5 p. (MIRA 15:6)  
(Mesons--Decay) (Magnetic materials)

YEGOROV, L.B.; IGNATENKO, A.Ye.; KUFTSOV, A.V.; PETRASHKU, M.G.;  
SARANTSEVA, V.R., tekhn. red.

[Anomaly in  $\mu^-$ -meson decay in mesic atoms of transition  
metals of the iron group] K voprosu ob anomalii pri raspade  
 $\mu^-$ -mesonov v mezoatomakh perekhodnykh metallov gruppy zhe-  
leza. Dubna, Ob"edinennyi inst iadernykh issledovanii, 1962. 9 p.

(MIRA 15:6)

(Mesons--Decay) (Transition metals) (Iron group)

KUPILOV, N. K.

(2)

YEGOROV, L.B., ISHATENKO, A.E., KURISOV, A.V., VETRANOV, N.

"Search for Anomalies in Mu Meson Decay in Mesonic Atoms of the  
He Group Transition Metals"

report presented at the Intl. Conference on High Energy Physics, Geneva,  
4-11 July 1962

Joint Institute for Nuclear Research  
Laboratory of Nuclear Problems

A. S. L. E., I-4501-9, A. S. E. Lab Project, A. V.

Investigation of Muon Capture by Tritium and the  
States of Hyperfine Structure in Tritonic Atoms of Tritium.

-> report Presented at the Int'l. Conference on High Energy Physics, Geneva,  
4-11 July 1962.

Joint Inst. Nuclear Research, Lab of Nuclear Problems.

S/056/62/043/003/022/063  
B102/B'04

AUTHORS:

Yegorov, L. B., Ignatenko, A. Ye., Kuptsov, A. V.,  
Petrashku, M. G.

TITLE:

Search for  $\mu^-$  decay anomalies in paramagnetic metals  
no. 3(9), 1962, 873-876

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43,  
no. 3(9), 1962, 873-876

TEXT: The observation of nontrivial effects in  $\mu^-$  decays caused in mesic atoms by unpaired electrons would be of great use for investigating the magnetic properties of atoms and of hydrides of transition metals. The authors measured the relative  $\mu^-$  decay probabilities at different numbers of unpaired electrons in mesic atoms of the systems Pd-H and Ti-H. Under identical experimental conditions the following yield ratios were obtained:

$$\begin{aligned} Y(\text{TiH}_{1.0}) / Y(\text{Ti}) &= 1.00 \pm 0.02, \\ Y(\text{PdH}_{1.0}) / Y(\text{PdH}_{0.8}) &= 1.02 \pm 0.02, \\ Y(\text{PdH}_{0.8}) / Y(\text{Pd}) &= 0.99 \pm 0.02, \\ Y(\text{PdH}_{0.8}) / Y(\text{PdH}_{0.6}) &= 1.01 \pm 0.02. \end{aligned}$$

Card 1/62

Search for  $\mu^-$  decay anomalies...

S/056/62/043/003/022/063  
B102/B104

The equality of the results strengthens the supposition that no effects caused by unpaired electrons are responsible for the increase of the  $\mu^-$  decay probability in mesic atoms of transition metals of the iron group (Phys. Rev., 113, 661, 1959; 119, 365, 1960). It indicates also a shift of the X-ray frequency emitted in the  $2p-1s$  transitions of the mesic atoms of these metals (C. Scott et al. Chicago, Preprint EFJNS-61-59). There is 1 figure.

ASSOCIATION: Ob'yedinenyyi institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: April 23, 1962

Figure. Block diagram of apparatus.  
Legend: 1-5 Scintillation counters, 6 - target, 7 - magnetizing coil,  
8 - copper filter, 9 - aluminum filter, 10 - anticoincidence circuit,  
11 - coincidence circuit, 12, 13 - amplifiers, 14, 15 - shaper, 16 - delay  
line ( $0.1 \mu\text{sec}$ ), 17-delay ( $> 1.1 \mu\text{sec}$ ), 18 - trigger, 19, 20 - transmission,  
21, 22 - discriminators, 23, 24, 25 - counting devices.

Card 2/62

41122

S/056/62/043/004/005/061  
B102/B180

24 6/17/80

AUTHORS: Yegorov, L. B., Ignatenko, A. Ye., Kuptsov, A. V., Petrashku, M. G.

TITLE: The anomaly problem in the  $\mu^-$  meson decay in mesic atoms of transition metals of the iron group

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, no. 4(10), 1962, 1149 - 1153

TEXT: Using scintillation counters with a 128-channel pulse-height analyzer, the ratio between the decay probability of  $\mu^-$  mesons in mesic atoms and of free  $\mu^-$  mesons was measured for mesic Fe, Zn, Ni and Cu to verify published experimental results and predictions. The Fe and Zn targets were in the form of sandwiches consisting of ten 15·15 cm<sup>2</sup> plates, separated by Al sheets 0.7 mm thick. The Ni and Cu targets were 15·15 cm<sup>2</sup> plates, 5 p/cm<sup>2</sup> thick. From the time distributions of the  $\mu^-$  decay electrons,  $S = \sum t_i n_i / \sum n_i$  was determined, where  $n_i$  is the number of pulses in time  $t_i$ . For Fe+Al  $S = 0.485 \pm 0.009$   $\mu$ sec and for Zn+Al,  $S = 0.463 \pm 0.008$   $\mu$ sec. Then

Card 1/3

S/056/C?/043/004/005/061  
B102/b130

The anomaly problem ...

with  $S(Fe + Al) = n_1 S(Fe) + n_2 S(Al)$ ,

$S(Zn + Al) = n'_1 S(Zn) + n'_2 S(Al)$ . (5) and

$S(Fe) = 0,201 \pm 0,004$ ,  $S(Zn) = 0,161 \pm 0,004$ ,  $S(Al) = 0,707 \pm 0,002$ .

$$\xi = \frac{\Lambda_p(Fe)}{\Lambda_p(Zn)} = \frac{n_1}{n'_1} \frac{n_2}{n'_2} \frac{\Lambda(Fe)}{\Lambda(Zn)} k_1 k_2,$$

(6) was calculated.  $\xi$  is the  $\mu^-$  decay probability ratio,  $k_{1,2}$  are correction factors.

$$\xi = \Lambda_p(Fe) / \Lambda_p(Zn) = 0,94 \pm 0,05.$$

$\xi = \Lambda_p(Ni) / \Lambda_p(Cu) = 0,98 \pm 0,05$ . was obtained: Within the error limits the  $\xi$ -values are equal - which indicates the absence of anomalies such as were observed e. g. in Phys. Rev. Lett. 1, 102, 1958; Phys. Rev. 113, 661, 1959; Phys. Rev. 117, 1580, 1960) and that the instrument effect mentioned by Huff (Ann. Physics, 16, 288, 1961) and Chilton (Phys. Rev. Lett. 7, 31, 1961) cannot be the cause of the anomalies observed by those writers. There are 4 figures.

Card 2/3

The anomaly problem...

8/056/62/043/004/005/061  
B102/B180

ASSOCIATION: Ob'yedinenyyi institut yadernykh issledovaniy (Joint Institute  
of Nuclear Research)

SUBMITTED: April 23, 1962

Card 3/3

TIKHONOV, A.V.; KUPTSOV, B.F.

"Western Siberia" by V.I. Orlov. Reviewed by A.V. Tikhonov,  
B.F. Kuptsov. Geog. v shkole 25 no.6:86-88 N-D '62.  
(Siberia, Western--Geography)  
(Orlov, V.I.)  
(MIRA 15:12)

KUPTSOV, I.A.

Production control of thread gauges. Izm.tekh. no.6:35-36 N-D '55.  
(MLRA 9:3)  
(Screw cutting) (Gauges)

KHILAEV, I. V.

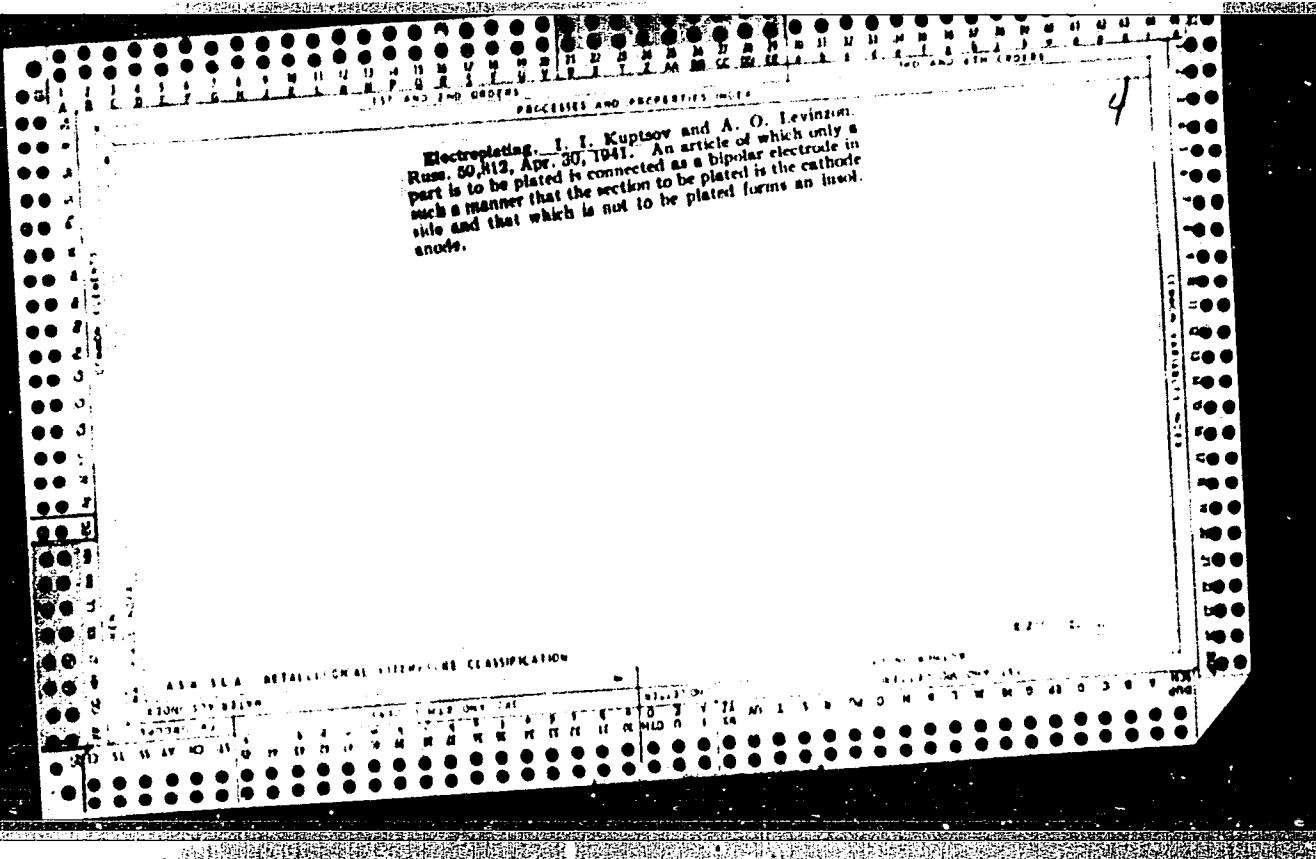
Trenny ostirovaniia nefti, kerossine i gaza po asfaltosementnym truboprovodam. [Ed. 1],  
kerosene and gas transportation through cement pipes. Moscow, Gost. nauch.-  
tekhn. Izd-vo neftianoi i gornotoplivoi lit-ry, 1947. 144 p. illus.

DLC: TNS79.5.K4  
CTY

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress  
Reference Department, Wash . . . . Unclassified

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BAKHALOV, Grigoriy Tikhonovich; RIRGAN, Leopold Nikolayevich; LABUTIN,  
Valentin Petrovich; FOMIN, N.V., redaktor; KAMAYEVA, O.M., redaktor;  
LAYNER, V.I., professor, doktor, retsenzent; KUPTSOV, I.I., inzhener,  
retsenzent; VAYNSHTEYN, Ye.B., tekhnicheskiy redaktor [REDACTED]

[Handbook of an electroplater] Spravochnik gal'vanostega. Izd. 2-e,  
perer. i dop. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i  
tsvotnoi metallurgii, 1954. 650 p. (MIRA 8:4)  
(Electroplating)

LARIN, Timofey Venil'yevich; ASTASHKOVICH, Boris Mikhaylovich; KUPTSOV, I.I., inzhener, redaktor; KHITROV, P.A., tekhnicheskiy redaktor.

[Increasing the wear resistance of bushings and piston rings for locomotive diesel engines.] Povyshenie iznosostoinosti vtulok i porshchnevyykh kolets teplovoznykh dizelei. Moskva, Gos.transp. zhel-dor.izd-vo, 1957. 122 p. (Moscow, Vsesoiuznyi nauchno-issledovatel'skii institut zheleznodorozhного transporta. Trudy, no. 140). (MLRA 10:7)

(Piston rings) (Diesel engines)

BARTFAI, "ela. TEREKHOV, V.F., inzh. [translator]; FOTOLITSYN, B.A., inzh. [translator]; KUPTSOV, I.I., inzh., red.; STROGANOV, L.P., red. izd-va; TIKHANOV, A.Ya., tekhn. red.

[Handbook on electroplating; translated from the Hungarian] Spravochnik gal'vanostega. Moskva, Mashgiz, 1960. 396 p. (MIRA 14:12) (Electroplating)

KAMENSKIY, Andrey Vasil'yevich; KUPTSOV, Ivan Pavlovich; NIKOLAYEVA,  
T.D., red.; MURASHOVA, V.A., tekhn. red.

[Control and measuring system of the electric section of thermal  
electric power plants] Kontrol'no-izmeritel'naya sistema elektri-  
cheskoi chasti teplovyykh elektrostantsii; lektsiia po kursu  
"Elektricheskaya chast' elektrostantsii i podstantsii" dlja stu-  
dentov energeticheskogo fakul'teta spetsial'nosti "Elektricheskie  
stantsii, seti i sistemy." Moskva, Gos.izd-vo "Vysshiaia shkola,"  
1961. 49 p.

(MIRA 16:2)

(Electric power plants—Electric equipment)

IOFFE, Yuliy Rafailovich; KUFTSOV, Ivan Pavlovich; OILOV, M.M., inzh.,  
red.; SLAVODKINA, G.N., red.; LEEDEEVA, L.V., tekhn. red.

[Design and construction of large thermal electric power plants  
of precast reinforced concrete] Proektirovanie i stroyitel'stvo  
moshchnykh toplovykh elektrostantsii iz sbornogo zhelezobetona.  
Moskva, Orgenergostroi, 1962. 77 p. (MIRA 15:10)

(Electric power plants)  
(Precast concrete construction)

KUPTSOV, Ivan Pavlovich; IOFFE, Yuliy Rafailovich; BELINSKIY, S.Ya.,  
kand. tekhn. nauk, red.; LARIONOV, G.Ye., tekhn. red.

[Design and construction of thermal electric plants] Proektirovanie i stroitel'stvo teplovyykh elektrostantsii. Moskva,  
Gosenergoizdat, 1962. 366 p. (MIRA 16:2)  
(Electric power plants--Design and construction)

SIDOROV, M.D.; KUPTSOV, I.T.

Continuous action electric dryer for the drying of reagents and  
preparations. Prom. khim. reak. i osobo chist. veshch. no.1:32 '63.  
(MIRA 17:2)

KUPTSOV, I.V.

Shrinkage cavities in heat-resistant alloy castings. Trudy LPI no. 224:  
113-123 '63. (MIRA 17:9)

NEKHENDZI, Yu.A.; GIRSHOVICH, N.G.; GRUZNYKH, I.V.; BILYKH, V.Ya.;  
KUPTSOV, I.V.; SIMANOVSKIY, M.P.; ANTIPOV, M.V.

Foundry properties of heat-resistant alloys. Issl. po zharopr.  
splav. 6:308-313 '60. (MIRA 13:9)  
(Heat-resistant alloys) (Founding)

KUPTSOV, K.

Anniversary of a plant. Rech. transp. 20 no.10:29 0 '61.  
(MIRA 14:9)  
l. Zav. kabinetom politicheskogo prosveshcheniya zavoda  
"Teplokhod".  
(Ships---Equipment and supplies)

ROGOV, B.I.; KUPTSOV, K.S.

Gamma-59 portable device for radioactive logging. Razved. i  
prom. geofiz. no.42:82-94 '61. (MIRA 16:11)

ACCESSION NR: AP4039010

S/0055/64/000/003/0003/0014

AUTHORS: Kruzhkov, S. N.; Kuptsov, L. P.

TITLE: Harnack's inequality for solutions of second order elliptic differential equations

SOURCE: Moscow. Universitet. Vestnik. Seriya 1. Matematika, mehanika, no. 3, 1964, 3-14

TOPIC TAGS: Harnack inequality, second order equation, elliptic equation, nonnegative generalized solution, measurable function

ABSTRACT: Let

$$\xi = (\xi_1, \dots, \xi_n), |\xi|^2 = \xi_1^2 + \dots + \xi_n^2$$

be a real vector, and the coefficients  $a_{ij}(x)$  be measurable functions. The Harnack inequality has been established by Yu. Moser for nonnegative generalized solutions of elliptic equations of the form

$$Lu = \sum_{i,j=1}^n \frac{\partial}{\partial x_i} \left[ a_{ij}(x) \frac{\partial u}{\partial x_j} \right] = 0, \quad (1)$$

Card 1/2

ACCESSION NR: AP4039010

where

$$a = \|a_i\| = a', \frac{1}{\lambda} |\xi|^{\alpha} < (\xi, a\xi) < \lambda |\xi|^{\alpha} \quad (2)$$

The authors extend a Harnack type inequality and a generalization of it to the solution of a general second order equation

$$Lu + (b(x), u_x) + c(x)u + f(x) = 0, \quad (3)$$

where

$$b(x) = (b_1(x), b_2(x), \dots, b_n(x)), u_x = \text{grad } u(x), (b, u_x) = \sum_{i=1}^n b_i(x)u_{x_i}(x). \quad (4)$$

The theorems were established by both authors for various assumptions on  $b_1(x)$ ,  $c(x)$ ,  $f(x)$ ; the proof is based on a method of Moser. Orig. art. has: 24 formulas.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet, kafedra differentsial'nykh uravnenii (Moscow State University, Department of Differential Equations)

SUBMITTED: 19Mar63

DATE ACQ: 09Jun64

ENCL: 00

SUB CODE: MA

NO REF Sov: 004

OTHER: 006

Card 2/2

1952, No. 6.

Bee Culture-Tula Province

"Bee culture of an advanced district." Pchelovedstvo, 29, No. 6, 1952.

Monthly List of Russian Accessions, Library of Congress, August 1952. Unclassified.

UDEL'NOVA, I.M., KUPTSOV, M.G.

Microscopic study of the yeast Endomyces magnusii during deep  
freezing and thawing [with summary in English]. Mikrobiologii  
27 no.3:283-286 My-Je '58 (MIRA 11:9)

1. Institut mikrobiologii AN SSSR.  
(FUNGI,  
endomyces magnusii, eff. of freezing & thawing,  
microscopy (Rus))

BOROVYAGIN, V.L.; KUPTSOV, M.G.

Some improvements in the UEM-100 electron microscope for the investigation of biological objects. Biofizika 5 no.3:366-368 '60.

(MIRA 13:7)

1. Institut biologicheskoy fiziki Akademii nauk SSSR, Moskva.  
(ELECTRON MICROSCOPY)

TIKHONENKO, T.I.; KUPTSOV, M.G.; NIKOL'SKAYA, I.I.

Control device for column chromatography. Biokhimia 25 no.2:376-  
379 Mr-Ap '60. (MIRA 14:5)

1. Laboratoriya biokhimii virusov Instituta radiatsionnoy i fiziko-khimicheskoy biologii Akademii nauk SSSR i laboratoriya biokhimii Instituta virusologii im. D.I.Ivanovskogo Akademii meditsinskikh nauk SSSR, Moskva.  
(CHROMATOGRAPHIC ANALYSIS)

KURCHMAN, Boris Semenovich; KUPTSOV, M.I., inzh., retsenzent;  
KUNYAVSKAYA, T.M., Fed.; SHAINFAYN, L.I., izdat.red.;  
ORESHKINA, V.I., tekhn.red.

[Precision casting using the lost wax process] Tochnoe lit'e  
po vyplavliaemym modeliam. Moskva, Gos. izd-vo obor. promyshl.,  
1958. 171 p. (MIRA 12:1)

(Precision casting)

KUPTSOV, M.V., inzh.

Adjustment of a composite current filter of a longitudinal  
DZL-1 differential protection system. Elek. sta. 35 no.11:  
79-81 N '64. (MIRA 18..)

"The Use of *Bacillus Prodigiosus* in Treating Diphtheria *Bacillus Carriers*." Trudy Astrakhanskogo Meditsinskogo Instituta, Astrakhan', Vol. 10, 1952, pp 179-182.

KUPTSOV, N.I.

\*Synthomycin therapy of dysentery in infants.\* Pediatrilia no.5;  
93-94 S-O'!54 (MLRA 7:12)

1. Iz Astrakhanskogo meditsinskogo instituta im. A.V.Lunacharskogo  
(CHLOROMYCETIN) (DYSENTERY)

KUPTSOV, N. I.

KUPTSOV, N. I. -- "On the Antimicrobial Properties of *Bacillus prodigiosus* and Its Use in the Struggle Against Diphtheria Carriers (Experimental Investigations and Clinical Observations)." Min Health RSFSR. Stalingrad State Medical Inst. Astrakhan', 1955. (Dissertation for the Degree of Candidate of Medical Sciences.)

SO: Knizhnaya letopis', No. 4, Moscow, 1956

KUPZOV, N.P.

SUBJECT USSR/MATHEMATICS/Fourier series  
AUTHOR KUPZOV N.P.  
TITLE On the absolute and uniform convergence of Fourier series of  
almost periodic functions.  
PERIODICAL Mat. Sbornik, n. Ser. 40, 157-178 (1956)  
reviewed 2/1957

The author gives some sufficient conditions for the absolute and uniform convergence of the Fourier series of uniform almost periodic functions  $f(x)$ . Two cases are distinguished: the Fourier exponents  $\lambda_1, \lambda_2, \lambda_3, \dots$  of the functions have 1) a finite number of finite limit points or 2) a single limit point at infinity. The obtained results are compared with well-known theorems of Bochner and Levitan.

INSTITUTION: Moscow.

*KUPTSOV N.P.*

39-4-4/9

AUTHOR: KUPTSOV N.P. (Moscow)

TITLE: On the Question of the Absolute and Uniform Convergence of Fourier Integrals (K voprosu ob absolyutnoy i ravnomernoy skhodimosti integralov Fur'ye).

PERIODICAL: Mat.Sbornik, 1957, Vol.42, Nr.4, pp.461-478 (USSR)

ABSTRACT: Let  $\varphi_\alpha(x, \lambda)$  be that solution of the equation

$$y''(x) - q(x)y(x) + \lambda y(x) = 0$$

which satisfies the initial conditions  $\varphi_\alpha(0, \lambda) = \sin \alpha$ ,  $\varphi_\alpha'(0, \lambda) = -\cos \alpha$ . The function  $q(x)$  is assumed to be real and summable in the square on every finite interval of the halfplane  $[0, \infty)$ . For every  $f(x) \in L_2(0, \infty)$  there exists at least one nondecreasing function  $\mathcal{G}(\lambda)$  with the property that

$$\int_0^\infty f^2(x) dx = \int_{-\infty}^\infty F^2(\lambda) d\mathcal{G}(\lambda),$$

where  $F(\lambda) = \text{l.i.m. } \int_0^\infty f(x) \varphi_\alpha(x, \lambda) dx$ . The author considers

Card 1/4

On the Question of the Absolute and Uniform Convergence of  
Fourier Integrals

39-4-4/9

the convergence of the integral  $\int_{-\infty}^{\infty} F(\lambda) \varphi_{\alpha}(x, \lambda) d\sigma(\lambda).$

Theorem: Let  $f(x)$  be continuous on  $[0, \infty)$  and belong to  $L_2(0, \infty)$ .

1) If  $\sin \alpha \neq 0$  and  $\sum_{n=1}^{\infty} \frac{1}{\sqrt{n}} \Omega_1(\frac{1}{n}, f) < \infty$ , then  $\int_1^{\infty} |F(\lambda)| d\sigma(\lambda)$   
converges and consequently  $\int_{-\infty}^{\infty} F(\lambda) \varphi_{\alpha}(x, \lambda) d\sigma(\lambda)$  converges

absolutely and uniformly on every finite interval of  $[0, \infty)$ .

2) If  $\sin \alpha = 0$  and  $\sum_{n=1}^{\infty} \frac{1}{\sqrt{n}} \Omega_2(\frac{1}{n}, f) < \infty$ , then  $\int_1^{\infty} \frac{|F(\lambda)|}{\lambda} d\sigma(\lambda)$

Card 2/4

39-4-4/9

On the Question of the Absolute and Uniform Convergence of  
Fourier Integrals

converges and consequently  $\int_{-\infty}^{\infty} F(\lambda) \varphi_{\alpha}(x, \lambda) dg(\lambda)$  converges

absolutely and uniformly on every finite interval of  $[0, \infty)$ .

Theorem: Let the set of points of increase of  $\varphi(1)$  lie on  $[0, \infty)$ . Let

Let  $f(x) \in L_2(0, \infty)$  and uniformly continuous on  $[0, \infty)$ . Let  
 $|\varphi_{\alpha}(x, \lambda)|$  be bounded on  $0 \leq \lambda < \infty$ ,  $0 \leq x < \infty$ . Let

$$F(\lambda) = \lim_{n \rightarrow \infty} \int_0^n f(x) \varphi_{\alpha}(x, \lambda) dx.$$

1. If  $\sin \alpha \neq 0$  and  $\Omega_1(h, f) = O(\sqrt{h})$ , then  $\int_0^{\infty} F(\lambda) \varphi_{\alpha}(x, \lambda) dg(\lambda)$

converges to  $f(x)$  uniformly on  $[0, \infty)$ .

2. If  $\sin \alpha = 0$  and  $\Omega_2(h, f) = O(\sqrt{h})$ , then  $\int_0^{\infty} F(\lambda) \varphi_{\alpha}(x, \lambda) dg(\lambda)$

Card 3/4

On the Question of the Absolute and Uniform Convergence of  
Fourier Integrals

39-4-4/9

converges to  $f(x)$  uniformly on  $[0, \infty)$ .

The following functions are used in these theorems:

1) Let  $\sigma(h, f) = \sigma(h)$  denote the maximal number  $\sigma$  for which

$$h^4 \sup_{|\eta| \leq h} \int_1^{\sigma+h} q^2(x) f^2(x+\eta) dx = \int_{\sigma-h}^{\infty} f^2(x) dx.$$

2) Let the function  $\chi(h, f)$  be defined as follows:

$$\chi(h, f) = \begin{cases} \int_{\sigma(h)-h}^{\infty} f^2(x) dx & \text{for } 0 \leq h \leq \frac{1}{2} \\ \int_{\sigma(h)-h}^{\infty} f^2(x) dx & \text{for } \frac{1}{2} \leq h < \infty. \end{cases}$$

3) Continue  $f(x)$  on  $(-\infty, 0)$  in an even manner, then

$$\Omega_1(h, f) = \sqrt{\sup_{|\delta| \leq h} \int_0^{\infty} [f(x+\delta) - f(x)]^2 dx + \chi(h, f)}.$$

Card 4/4 4)  $\Omega_2(h, f)$  can be obtained also for an odd continuation.  
SUBMITTED May 3, 1956 Six Soviet references are quoted.

AVAILABLE: Library of Congress

26141  
S/040/61/025/004/020/021  
D274/D306

16-3460

AUTHOR:

Kuptsov, N.P. (Saratov)

TITLE:

On a sufficient stability condition for the trivial solution of a system of two linear differential equations

PERIODICAL:

Prikladnaya matematika i mekhanika, v. 25, no. 4,  
1961, 791-793

TEXT: A new stability criterion is found, constituting a generalization of M. Ya. Leonov's criterion (Ref. 2: O kvazigarmonicheskikh kolebaniyakh. PMM, 1946, v. 10, no. 5-6). The system of linear differential equations

$$\dot{x} = a_{11}(t)x + a_{12}(t)y, \quad \dot{y} = a_{21}(t)x + a_{22}(t)y \quad (2)$$

is given, with piecewise-linear coefficients. The quadratic form

$$U = A(t)x^2 + 2B(t)xy + C(t)y^2 \quad (3)$$

is considered, whose coefficients satisfy the system of linear equations

Card 1/4

26141

S/040/61/025/004/020/021

D274/D306

On a sufficient stability...

$$\begin{aligned}\dot{A} &= -2a_{11}A - 2a_{21}B \\ \dot{B} &= -a_{12}A - (a_{11} + a_{22})B - a_{21}C \\ \dot{C} &= -2a_{12}B - 2a_{22}C\end{aligned}\tag{4}$$

and initial conditions

$$A(0) = A_0 > 0, \quad B(0) = B_0, \quad C(0) = C_0 > 0, \quad A_0 C_0 - B_0^2 > 0 \tag{5}$$

$\Delta(t) = A(t)C(t) - B^2(t)$ . For  $t > 0$ , the equation  $A(t)x^2 + 2B(t)xy + C(t)y^2 = \text{const}$  determines an ellipse. It is assumed that for a given solution  $(x(t), y(t))$  of system (2),  $U$  has the value  $U_0$ ; that means that  $(x(t), y(t))$  lies on the ellipse  $A(t)x^2 + 2B(t)xy + C(t)y^2 = U_0$ ; from the largest value of the abscissa (ordinate) of the ellipse follows

$$|x(t)| \leq \sqrt{U_0 \frac{C(t)}{\Delta(t)}}, \quad |y(t)| \leq \sqrt{U_0 \frac{A(t)}{\Delta(t)}} \tag{7}$$

Thus, for  $x(t)$  to be bounded on  $(0, \infty)$  it is sufficient that  $C(t)/\Delta(t)$  be bounded on the same interval. System (2) is linear,

Card 2/4

26141  
S/040/61/025/004/020/021  
D274/D306

On a sufficient stability...

hence it follows from the foregoing proposition that for the trivial solution of system (2) to be stable with respect to  $x$  it is sufficient that  $C(t)/\Delta(t)$  be bounded on  $(0, \infty)$ . It readily follows that this is also the necessary condition. From (7) it also follows that the necessary and sufficient condition for stability with respect to  $y$  is the boundedness of  $A(t)/\Delta(t)$  on  $(0, \infty)$ . Further, let  $s(z)$  be an arbitrary function which is positive and continuously differentiable on  $(0, \infty)$ . Setting

$$\lambda(t) = \frac{1}{\sqrt{s(t)}} \exp \int_0^t \left\{ a_{11} + a_{22} - \left[ \left( \frac{\dot{s}}{2s} + a_{11} - a_{22} \right)^2 + \frac{(a_{21} + sa_{12})^2}{s} \right] \right\} dt \quad (9)$$

one obtains after some computations the following theorem: If a positive and continuously differentiable function  $s(t)$  can be found, and a constant  $M$ , so that

$$\int_0^t \left\{ \left[ \left( \frac{\dot{s}}{2s} + a_{11} - a_{22} \right)^2 + \frac{1}{s} (a_{11} + sa_{12})^2 \right]^{\frac{1}{2}} - \frac{\dot{s}}{2s} + a_{11} + a_{22} \right\} dt \leq M \quad (13)$$

Card 3/4

26141

S/040/61/025/004/020/021

D274/D306

On a sufficient stability...

for  $t > 0$ , then the trivial solution of (2) is stable with respect to  $x$ . Stability with respect to  $y$  is given by a similar condition. Finally, several particular criteria are given which follow from the theorem. There are 4 Soviet-bloc references.

SUBMITTED: November 24, 1960

Card 4/4

KUPTSOV, N.P.

Conditions for non-self-adjointness of a second-order linear  
differential operator. Dokl.AN SSSR 138 no.4:767-770 Je '61.  
(MIRA 14:5)

1. Saratovskiy gosudarstvennyy universitet imeni N.G.Chernyshevskogo.  
Predstavлено академиком A.N.Kolmogorovym.  
(Functional analysis) (Operators (Mathematics))

KUPTSOV, N.P.

Estimation of the solutions to a system of linear differential  
equations. Usp.mat.nauk 18 no.1:159-164 Ja-F '63.

(MIRA 16:2)  
(Differential equations, Linear)

LYUSTERNIK, Lazar' Aronovich; SOBOLEV, Vladimir Ivanovich; KUPTSOV,  
H.P., red.; BITYUTSKOV, V.I., red.

[Elements of functional analysis] Elementy funktsional'-  
nogo analiza. Izd.2., perer. Moskva, Nauka, 1965. 519 p.  
(MIRA 19:1)

KUPTSOV, Petr Aleksandrovich; FLOROVA, Ye.I., redaktor; VARGANOVA, A.N.,  
~~redaktor izdatel'stva~~; ZHOROV, D.M., tekhnicheskiy redaktor

[Hotel management] Gostinichnoe khoziaistvo. Moskva, Izd-vo Minis-  
terstva komunal'nogo khoziaistva RSFSR, 1956. 86 p. (MLRA 9:12)  
(Hotels, taverns, etc.)

KUPTSOV, Petr Aleksandrovich; BOLOTINA, A.V., red. izd-va; LELYUKHIN,  
A.A., tekhn. red.

[Hotel operation and equipment] Ekspluatatsiia i oborudovanie go-  
stinstv. Izd.3., perer. i dop. Moskva, Izd-vo M-va kommun.khoz.  
RSFSR, 1962. 145 p. (MIRA 16:3)  
(Hotel--Management)

KUZNETSOV, V.; KUPTSOV, S.

Put norm research work in the service of production. Sots.  
trud 7 no.4:84-86 Ap '62. (MIRA 16:1)  
(Lugansk Province--Coal mines and mining--Production standards)

KUPTSOV, S.I.

"Calculation and Investigation of the Characteristics of Nozzles and the Injection Process." Thesis for degree of Cand. Technical Sci. Sub 10 May 50, All-Union (non "State") Sci Res (Order of Labor Red Banner) Automobile and Automotive Inst

Summary 71, 4 Sep 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950. From Vechernaya Moskva. Jan-Dec. 1950

KUPTSOV, S.I., kandidat tekhnicheskikh nauk.

Calculating the process of fuel injection by pump nozzles of the IauZ-204  
engine. Avt.trakt.pron. no.8:19-23 Ag '53. (MLRA 6:8)

1. Nauchnyy avtomotornyy institut.

(automobiles--Fuel systems)

KUPTSOV, S.I., kandidat tekhnicheskikh nauk

Speed control without regulator in automobile diesel engines. Avt.  
trakt.prom. Avt. trakt.prom. no. 9:13-18 S '55. (MLRA 8:12)

1. Nauchno-issledovatel'skiy avtomotornyy institut  
(Automobiles--Engines) (Diesel engines)

KUPTSOV, S.I., kandidat tekhnicheskikh nauk.

Controlling the speed of automobile engines without regulators.  
Avt. i trakt. prom. no.3:20-24 Mr '56. (MLRA 9:7)

1. Nauchno-issledovatel'skiy avtomotornyy institut.  
(Automobiles--Engines)

KUPTSOV, V.

Supported by miners' constructive ideas. Mast. ugl. ? no. 5:16-  
17 My '58. (MIRA 11:7)

1. Nachal'nik shakhty No. 11 "Uzlovskaya" kom'inata Tulaugol'.  
(Coal mines and mining)

KUPTSOV, V.I.

In the world of socialism. Nauka i zhyttia 11 no.8:40 Ag  
'61. (MIRA 14:12)  
(PUBLIC HEALTH)

KUPTSOV, V.I.

In the world of capitalism. Nauka i zhyttia 11 no.8:42 Ag '61.  
(MIRA 14:12)  
(PUBLIC HEALTH)

Kuptsov

S/179/60/000/02/022/032  
E031/E213

AUTHOR: Kuptsov, V. M. (Moscow)

TITLE: The Method of Characteristics for Equilibrium Axisymmetric Real Gas Flows

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk Mekhanika i mashinostroyeniye, 1960, Nr 2, pp 138-140 (USSR)

ABSTRACT: The flow of a real gas at high temperatures but not at very high pressures is considered. The pressures are assumed to be such that throughout the entire flow the Clapeyron equation is valid. Further assumptions are that the flow is in equilibrium, heat transfer and friction are absent and initially the flow is uniform. By equilibrium flow is understood a flow in which all the relaxation times are significantly less than the characteristic times of variation of the parameters of the flow. The equations for the characteristics of the plane flow of a real gas are generalized to axisymmetric flows and put in a form convenient for computation on a digital computer. The equations concerned are the equation of continuity and the equations of motion along and perpendicular to the line of flow. The equation of

Card 1/3

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S/179/60/000/02/022/032  
EO31/E213

The Method of Characteristics for Equilibrium Axisymmetric Real Gas Flows

energy is also required. Using an approach similar to that in Ref 1, equations are derived for the derivative of  $\theta$  with respect to  $s$  taken along a characteristic ( $\theta$  is the angle between the velocity and the axis of symmetry and  $s$  is measured along the line of flow). Equations for  $dr$  are also given ( $r$  is the distance from the point under consideration to the axis of symmetry). These equations are transformed into finite difference form. These differ from the corresponding system for an ideal gas by the presence of a function  $z(\alpha)$ , where  $\alpha$  is the Mach angle. The function  $z(\alpha)$  must be calculated for each problem and in order to do so it is necessary to evaluate the parameters  $\Delta J/\Delta T$ ,  $\Delta T/\Delta \alpha$  and  $a$  ( $J$  is the enthalpy,  $T$  is the temperature and  $a$  is the velocity of sound), which can be done from thermodynamic tables in the manner indicated by the author. A simplification is indicated if the excitation has only oscillatory degrees of freedom and dissociation and ionization are absent, for then  $J$ ,  $a$  and  $\alpha$  depend

Card 2/3

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S/179/60/000/02/022/032  
EO31/E213

The Method of Characteristics for Equilibrium Axisymmetric Real Gas Flows

only on the temperature. There is 1 figure and 2 Soviet references.

SUBMITTED: October 19, 1959

Card 3/3

VC

PROMOROVSKAYA, I.B.; KOTISOV, V.I.

Mandrels with unclasping spring bushings. Avt.prom. 31 no. 5:42-43  
My '65. (MIRA 18:5)

1. Moskovskiy avtozavod imeni Likhacheva.

KUPTSOV, V.S., inzh.

Estimating the costs of a passenger-hour. Vest.TSNII MPS 19  
no.1:36-39 '60. (MIRA 13:4)  
(Railroads--Passenger traffic)  
(Railroads--Costs of operation)

KUPTSOV, V. S.

Cand Tech Sci - (diss) "Technico-economic foundation of the most  
advantageous speed and weight of cross-country passenger trains."  
Moscow, 1961. 21 pp; (Ministry of Railways USSR, Moscow Order  
of Lenin and Order of Labor Red Banner Inst of Railroad Trans-  
port Engineers imeni I. V. Stalin); 120 copies; price not given;  
(KL, 7-61 sup, 239)

KUPTSOV, V.V. (Donetskaya oblast')

Anaphylactic shock with a fatal outcome following the administration of antitetanic serum. Vrach. delo no. 28150 F'64  
(MIRA 17:4)

1. Granitnaya rayonnaya bol'nitsa No.1, Donetskaya oblast'.

PETROV, N.V., kand.tekhn.nauk; KUPTSGV, V.V., inzh.

Spring fastenings with double-layer clamps for reinforced concrete  
ties. Vest.TSNII MPS 22 no.6:8-11 '63. (MIRA 16:10)

KUPTSOV, Yu.

We have increased the production of mixed feeds. Muk.-elev. prom. 29  
no.3:27 Mr '63. (MIRA 16:9)

1. Glavnnyy inzh. Cherepovetskoy bazy khleboproduktov.

32(3)

SOV/112-59-2-3065

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 2, p 117 (USSR)

AUTHOR: Mikhaylov, M. I., Kuptsov, Yu. Ye., and Razumov, L. D.

TITLE: Determining the Electric Parameters of a Single-Phase Contact-Wire System (Opredeleniye elektricheskikh parametrov kontaktnoy seti odnofaznogo peremennogo toka)

PERIODICAL: Vestn. Vses. n.-i in-ta zh.-d. transp., 1957, Nr 8, pp 16-20

ABSTRACT: To evaluate the accuracy of existing methods for calculating electrical parameters of a contact system, Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhного transporta (All-Union Scientific-Research Institute of Railroad Transportation) and Tsentral'nyy nauchno-issledovatel'skiy institut svyazi (Central Scientific-Research Institute of Communications) used various computation methods and also actual measurements on an experimental section Ozherel'ye-Pavelets in 1956. Computation methods were suggested by M. I. Mikhaylov and by K. A. Parfenov. A comparison of calculated and measured

Card 1/2